PTO/SB/05 (08-03)
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UTILITY PATENT APPLICATION **TRANSMITTAL**

(only for new nonprovisional applications under 37 CFR 1.53(b))

espond to a collection of infor	mation unless it displays a valid OMB control number
Attorney Docket No.	2107.0230001/TUM/JRM
First Inventor	Denis BABIN
Title	Tight Pitch Nozzle with Individual Valve Gate Control
Express Mail Label No.	

		LICATION ELEMENTS 600 concerning utility patent application contents.	AD	DRI	ESS TO:	Mail Stop Paten Commissioner f P.O. Box 1450 Alexandria VA	for Patents	
1. [2. [3.]4. D5. C6.	Applicant claise See 37 CFR 1 Specification (preferred arrang - Descriptive title - Cross Reference - Statement Regarang - Reference to secon a computer programmary - Brief Summary - Brief Descriptio - Detailed Descriptio - Claim(s) - Abstract of the I	[Total Pages 14] gement set forth below) of the Invention te to Related Applications rding Fed sponsored R & D quence listing, a table, rogram listing appendix the Invention of the Invention on of the Drawings (if filed) ption	a b	ucleo	D-ROM or CD- copendix) otide and/or Am applicable, all nec Computer Read cification Sequen i.	R in duplicate into Acid Sequessary) able Form (CR ce Listing on: OM or CD-R (fying identity of ANYING AP ers (cover sheet statement assignee)	e, large table or Computer quence Submission RF) 2 copies); or of above copies PPLICATION PARTS et & document(s)) Power of Attorney	700521
6. 🖸	b. Copy from for continuities. i. Application Da	pecuted (original or copy) n a prior application (37 CFR 1.63(d)) nution/divisional with Box 18 completed) DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). atta Sheet. See 37 CFR 1.76.	15. 16. 17.		form PTO/SB/35 c Other: Author Other: The na	PTO-1449 endment Postcard (MPE cally itemized) of Priority Doc is claimed) equest under 35 to r its equivalent. rization Under	ument(s) U.S.C. 122 (b)(2)(B)(i). Applican 37 C.F.R. § 1.136(a)(3) gnee is: Mold-Masters Limite	
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-Part (CIP) of prior application No:/								
_								
NAN	Customer Number 26111 NAME STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. Attorneys at Law Correspondence address below Attorneys at Law							
ADI	DRESS							
CITY STATE					- · · ·	ZIP CODE		
COL	UNTRY	TELEPHONE				FAX		
	ME (Print/Type)	Jennifer R. Mahalingappa		Reg	istration No. (Atto	rney/Agent)	47,765	
SIG	NATURE	sennifi R. Mahalingappe	-				Date November 5, 2003	

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO:: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

FEE TRANSMITTAL for FY 2004

ffective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

	Complete if Known				
ANSMITTAL	Application Number	To Be Assigned			
FY 2004	Filing Date	Herewith D nis BABIN			
fees are subject to annual revision.	First Named Inventor				
tity status. See 37 CFR 1.27	Examiner Name	To Be Assigned			
INT (\$)1,068.00	— Art Unit	To Be Assign d			
(\$)1,000.00	Attorney Docket No.	2107.0230001/TUM/JRM			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)							
☐ Check ☑ Credit card ☐ Money Order ☑ Other** ☐ None ** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.		3. ADDITIONAL FEES						
		Large Entity Small Entity						
Deposit Account Deposit Account Number 19-0036		Fee Fee Fee (\$) Code (\$)			Fee Description			Fee Paid
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.		130	2051	65	Surcharge - late filing	fee or oath		
The Commissioner is authorized to: (check all that apply)	1502	50	2052	25	Surcharge-late provision	onal filing fe	e or cover	
☐ Charge fee(s) indicated below ☐ Credit any over payments	1053	130	1053	130	Non-English specificat	tion		
Charge any additional fee(s) during the pendency of this	1812	2,520	1812	2,520	For filing a request for	ex parte ree	xamination	
application Charge fee(s) indicated below, except for the filing fee to the		920*	1804	920*	Requesting publication action	n of SIR prior	to Examiner	
above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication action	n of SIR after	Examiner	
	1251	110	2251	55	Extension for reply wit	hin first mon	th	
	1252	420	2252	210	Extension for reply wit	hin second n	nonth	
FEE CALCULATION	1253	950	2253	475	Extension for reply wit	hin third mor	nth	
1. BASIC FILING FEE	1254	1,480	2254	740	Extension for reply wit	hin fourth mo	onth	
Large Entity Small Entity	1255	2,010	2255	1,005	Extension for reply wit	hin fifth mon	th	
Fee Fee Fee Fee Description Fee Paid	1401	330	2401	165	Notice of Appeal			
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee 770.00	1402	330	2402	165	Filing a brief in suppor	t of an appea	al	
1002 340 2002 170 Design filing fee	1403	290	2403	145	Request for oral hearing	ng		
1003 530 2003 265 Plant filing fee	1451	1,510	1451	1,510	Petition to institute a p	ublic use pro	ceeding	
1004 770 2004 385 Reissue filing fee	1452	110	2452	55	Petition to revive - una	voidable	_	
1105 160 2005 80 Provisional filing fee	1453	1,330	2453	665	Petition to revive - unir			
SUBTOTAL (1) (\$) 770.00	1501	1,330	2501	665	Utility issue fee (or reis			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		480	2502	240	Design issue fee			
Fee from Extra below Fee Paid	1503	640	2503	320	Plant issue fee			
Total Claims 19 - 20** = X = 0.00		130	1460	130	Petitions to the Comm	issioner		
Indep. Claims <u>6</u> - 3** = <u>3</u> X <u>86</u> = <u>258.00</u> Multiple Dependent = 0.00	1807	50	1807	50	Processing fee under	37 CFR 1.17	(q)	
	1806	180	1806	180	Submission of Informa	tion Disclosu	ire Stmt	
Large Entity; Small Entity Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	8021	40	8021	40	Recording each patent	t assignment	per	40.00
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Recording each patent property (times number Filing a submission aft			
1201 86 2201 43 Independent claims in excess of 3				303	1.129(a))	•	,	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional inv (37 CFR 1.129(b))	ention to be	examined	
1204 86 2204 43 **Reissue independent claims over original patent	1801	770	2801	385	Request for Continued	l Examination	n (RCE)	
1205 18 2205 9 **Reissue claims in excess of 20	1802	900	1802	900	Request for expedited application	examination	of a design	
and over original patent	Other f	ee (spec	ifv)		аррисацоп		l	
SUBTOTAL (2) (\$)258.00		Other fee (specify) * Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$140.00					00	
c. Harrisor providusly paid, if grouter, i or Neissace, see above								
SUBMITTED BY	Posist	rotion At				Complete (if	applicable)	
Name (Print/Type) Jennifer R. Mahalingappa	(Attorn	ey/Agen			47,765	Telephone	202-371-	-2600
Signature Gennif-R. Mahalis	sy.	gre				Date	November :	5, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Denis BABIN

Appl. No. To Be Assigned

Filed: Herewith

Confirmation No. To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 2107.0230001/TUM/JRM

For:

Tight Pitch Nozzle with Individual Valve Gate Control

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Gennifer R. Mahalingapper

Jennifer R. Mahalingappa

Attorney for Applicant

Registration No. 47,765

Date: November 5, 2003

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

SKGF_DC1:196106.1



Robert Greene Steme Edward J. Kessler Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michele A. Cimbala Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Linda E. Alcorn Robert C. Millonig Lawrence B. Bugaiskop Unadd J. Featherstone Michael V. Messinger Judith U, Kim Timothy J, Shea, Jr. Patrick E, Garrett Heidi L, Kraus Edward W. Yee Albert L, Ferro* Donald R, Banowit Peter A, Jackman Molly A, McCall Teresa U. Medler Jeffrey S, Weaver Kendrick P. Patterson Vincent L. Capuano Eldora Ellison Floyd Thomas C. Fiala Brian J. Del Buono Virgil Lee Beaston* Kimberly N, Reddick Theodore A. Wood Elizabeth J. Haanes Bruce E. Chalker Joseph S. Ostroff Frank R. Cottingham Christine M. Lhulier Rae Lynn Prengaman Jane Shershenovich* Lawrence J. Carroll* George S. Bardmesser Daniel A. Klein* Rodney G. Maze Jason D. Eisenberg Michael D. Specht Andrea J. Kamage Tiracy L. Muller* LuAnne M. Yuricek*

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Of Counsel Kenneth C. Bass III Evan R. Smith

*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

November 5, 2003

WRITER'S DIRECT NUMBER: (202) 772-8691 INTERNET ADDRESS: JMAHALIN@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Mail Stop Patent Application

Re:

U.S. Non-Provisional Utility Patent Application

Appl. No. To Be Assigned; Filed: Herewith

For: Tight Pitch Nozzle with Individual Valve Gate Control

Inventor:

Denis BABIN

Our Ref:

2107.0230001/TUM/JRM

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 2. PTO Fee Transmittal (Form PTO/SB/17);
- 3. U.S. Utility Patent Application entitled:

Tight Pitch Nozzle with Individual Valve Gate Control

and naming as inventor:

Denis BABIN

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. An original executed Declaration for Patent Application:

Sterne, Kessler, Goldstein & Fox P.L.C.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents November 5, 2003 Page 2

- c. A specification containing:
 - i. 8 pages of description prior to the claims;
 - ii. 5 pages of claims (19 claims);
 - iii. a one (1) page abstract;
- d. 6 sheets of drawings: (Figures 1, 1A, 2, 3A, 3B, 4 and 5);
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 5. Recordation Form Cover Sheet;
- 6. An original executed Assignment to <u>Mold-Masters Limited</u>, recordation of which is hereby respectfully requested;
- 7. PTO-2038 Credit Card Payment Form for \$1,068.00 to cover:

\$770.00 Filing fee for patent application; \$258.00 Fee for excess independent claims; \$40.00 Assignment recordation fee; and

8. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

genife R. Mahalingoppe

Jennifer R. Mahalingappa Attorney for Applicant

Registration No. 47,765

TUM/JRM:bac Enclosures